

INTEGRATED OPTICAL DEVICE AND METHOD OF MAKING THE SAME

Abstract of the Disclosure

An optical fiber and method of making the same, the optical fiber being characterized by an axial symmetry and comprising a core, doped with phosphorescent or fluorescent impurities, and a transparent envelope. The transparent envelope comprises a cladding layer and optionally a jacket layer surrounding the cladding layer. The optical fiber may further comprise an associated light source comprising an inner electrode, an outer electrode, and an active area, located between said inner electrode and said outer electrode. The light source and said optical fiber are integrated as a unit. The light source is characterized by an axial symmetry and is positioned coaxial with respect to the axis of the optical fiber. The inner electrode is substantially transparent, such that light generated in said active area may propagate outside said light source and into the optical fiber.

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